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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,326	09/10/2003	Dinei A. Florencio	MCS-033-03 (304925.01) 5957	
27662 MICROSOFT	7590 10/09/2007 CORPORATION		EXAMINER	
C/O LYON & HARR, LLP			LERNER, MARTIN	
300 ESPLANADE DRIVE SUITE 800			ART UNIT	PAPER NUMBER
	OXNARD, CA 93036		2626	
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			10/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	Application No.	Applicant(s)		
	10/660,326	FLORENCIO ET AL.		
Office Action Summary	Examiner	Art Unit		
•	Martin Lerner	2626		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>08 Seconds</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under Expression in the practice of the practice	action is non-final. nce except for formal matters, pro			
Disposition of Claims		•		
4) ⊠ Claim(s) 1 to 36 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1 to 36 are subject to restriction and/or	vn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on <u>08 September 2007</u> is/a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Examiner	re: a) \square accepted or b) \square objecd drawing(s) be held in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1 to 14, drawn to a system for encoding an audio signal, comprising buffering each sequential unknown type segment in a segment buffer until analysis of a subsequent segment identifies the subsequent segment type as any of a speech segment and a silence segment, and encoding the buffered segments using a segment-specific encoder corresponding to the type of subsequent segment, classified in class 704, subclass 210.
 - II. Claims 15 to 23, drawn to a system for encoding a speech onset, comprising continuously analyzing and buffering sequential frames while analysis is unable to determine whether the buffered frame is of a frame type including any of a speech type frame and a non-speech type frame, automatically identifying at least one of the buffered sequential frames as having the same type as a current sequential frame, and encoding the buffered sequential frames, classified in class 704, subclass 206.
 - III. Claims 24 to 30, drawn to a computer-implemented process for encoding at least one frame of a digital audio signal, comprising buffering a current frame of an audio signal in a frame buffer when it can not be determined whether the current frame includes any of speech and non-speech,

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sequentially analyzing and buffering subsequent frames until analysis of subsequent frames identifies a frame including any of speech and non-speech, and temporally compressing each buffered frame, classified in class 704, subclass 503.

IV. Claims 31 to 36, drawn to a method for capturing speech onset, comprising buffering all chronological frames when the analysis of the chronological frames is unable to identify a presence of any speech and non-speech in the frames, identifying at least one of the buffered chronological frames as having a same content type as a current chronological frame when analysis of the current chronological frame identifies the presence of any of speech and non-speech in the signal following the buffering of any chronological frames, and encoding the current chronological frame and at least one of the buffered chronological frames, classified in class 704, subclass 215.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, Invention I has separate utility such as where an unknown frame is identified as the same as a subsequent frame, while Invention II has separate utility such as where a buffered sequential frame is found to have the same type as a current sequential frame. See MPEP § 806.05(d).

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Inventions II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, Invention II has separate utility such as where a buffered sequential frame is found to have the same type as a current sequential frame, while Invention III has separate utility such as where subsequent frames are analyzed and buffered, and each buffered frame is temporally compressed. See MPEP § 806.05(d).

Inventions III and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, Invention III has separate utility such as where subsequent frames are analyzed and buffered, and each buffered frame is temporally compressed, while Invention IV has separate utility such as where a buffered frame is identified as having a same content type as a current chronological frame. See MPEP § 806.05(d).

Inventions I and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, Invention IV has separate utility such as where a buffered frame is identified as having a same content type as a current chronological

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frame, while Invention I has separate utility such as where an unknown frame is identified as the same type as a subsequent frame. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where Applicants elect a subcombination and claims thereto are subsequently found allowable, any claims depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicants are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicants are advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should Applicants traverse on the ground that the inventions or species are not patentably distinct, Applicants should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin Lerner whose telephone number is (571) 272-7608. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ML 10/2/07

Examiner

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